

VTOROV, YE. N.

N. G. SUSHKIN, I. A. KOVNER, YE. N. VTOROV

"Electron Sensitometry," Izvestiya Akad Nauk USSR, Ser Fiz, 15: 395-402, No. 4, 1951

The over-all quality of this work appears to be satisfactory; it is a traight-forward job and involved no particular ingenuity since many other people have made similar measurements of electron sensitivity of emulsions. The results agree in general with those obtained by previous workers. The work was carried out on a regular electron microscope and required only familiarity with the operation of this instrument. Presumably the authors have had previous experience on the electron microscope.

IX

VTOROV, YE. N.

A. G. SUSHKIN and E. N. VTOROV

"Resolving Power of Photographic Emulsions for Electron Beams," Izvestiya Akad Nauk USSR, Ser Fiz 15: 403-409, 1951,

This work deals with an important question, both from a theoretical and practical standpoint, upon which there is very little literature of any merit. It shows considerable originality and ingenuity. One very basic experimental consideration is completely ignored in the report and would make the results absolutely unreliable if no adequate provisions were made to eliminate this variable. Except for this factor, the work is reasonably, though not extraordinarily, thorough. The authors appear to be more experienced in the field of the physics of the photographic image than in electron microscopy, though they seem to exhibit an adeaquate familiarity with the operational features and the literature on the microscope.

IX

WTOROV, Ye. N.

USSR/Electronics - Photography

Jul/Aug 51

"Electronic Sensitometry," N. G. Sushkin, I. A. Kovner, Ye. N. Vtorov, Moscow Inst of Power Eng imeni Molotov

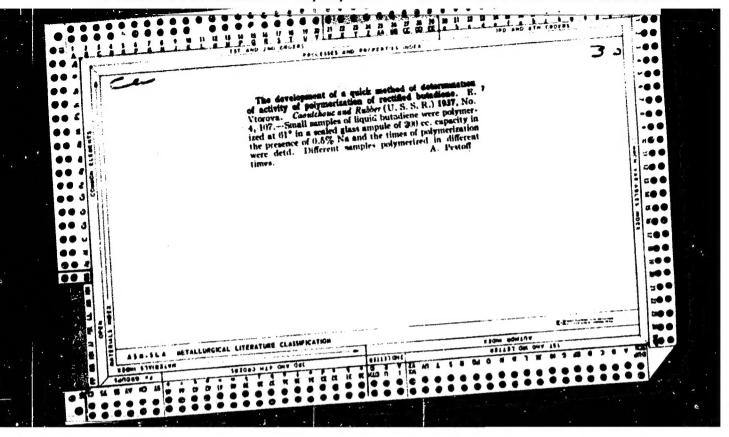
"Is Ak Nauk SSSR, Ser Fiz" Vol XV, No 4, pp 395-402

Subject deals with quant photographic properties of materials. Investigated 12 types of Russian-made plates; and plotted curves of emulsion sensitivity vs charge density. Tabulates electronic parameters of plates. Authors are grateful to V. A. Fabricant and K. S. Bogemolov for advice.

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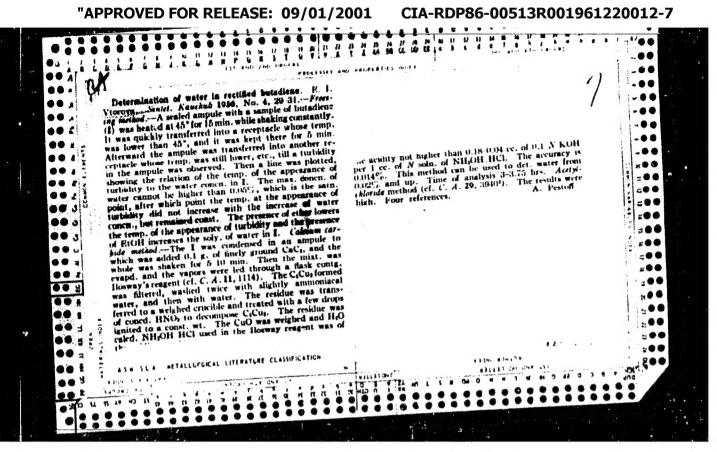
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		B. Borries (Zs fuer Physik, 122, 1944 and 1942) and by M. Ardenne (Elektronenübermi- kroscopie, Berlin, 1940). Results tabulat	USER/Electronics - Photography (Contd)	-made electron microscope cation and further optics ographic plates requires Methods applied for meas power of photosmilsion a	Ak Mauk SSSR, Ser Fiz" Vol XV, No 4,	"Resolving Power of Photoemulsion for Rays, " W. G. Gushkin, Ye. N. Vtorov, Inst of Power Eng imeni Molotov	WEEN/Electronics - Photography	
	195139	122, 1944 and 119, lektronendbermi- Results tabulated.	195 <u>739</u>	pes provide medium cal magnification s good resolving asurements of resare those by	V, No 4,	otoemision for Electron Ye. N. Vtorov, Moscov ni Molotov	Jul'/Aug 51	
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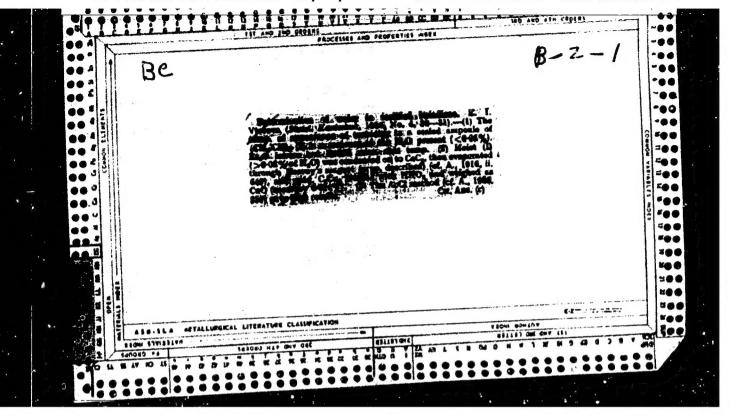
LEVIT, G.T., inzh.; VTOROV, Ye.P., inzh.; MASLYAYEV, A.S., inzh.; DUDOROV, Yu.D., 1526. Burning of Ekibastuz coal in furnaces with hammer mills. Elek. sta. 34 no.8:8-13 Ag 163. (MIRA 16:11)

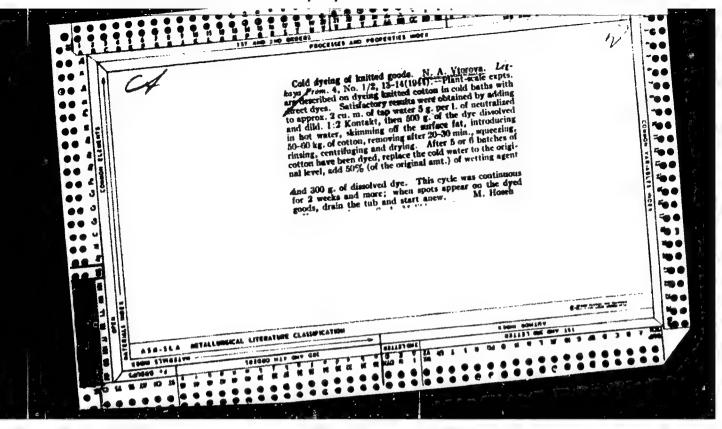


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AUTHOR: Vtorov, Ye. P.; Dmitrenko, I. M. ORG: Physico-Technical Institute of Low Temperature, AN UkrSSR, Khar'kov (N) The belonicheskiy institut nizkikh temperatur AN UkrSSR)	
TITLE: Superconducting bolometric current modulator SOURCE: Pribory i tekhnika eksperimenta, no. 3, 1966, 223-224	
monto mags, do amplifier, bolometer, bolometric modulator, superconductivity	
ABSTRACT: An amplifier is described which is intended for measuring extremely small (10^{-11} v) voltages produced by low-resistance (0.1 ohm) sources; the instrument uses a film modulator whose superconductivity is destroyed, at a preset frequency, by means of periodic illumination. The instrument uses standard electronic components and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than previously known d-c amplifiers (e.g., I. M. and is claimed to be simpler than prev	
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VTORUSHIN, A.V.; YEGOROVA, N.A.; OBTNIN, N.F.

Chromium in bean-conglomerate iron ores in the Serov deposit (Northern Urals). Izv. vys. ucheb. zav.; geol. i rav. 4 no.4:79-85 Ap °61. (MIRA 14:6)

Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva.
 (Serov region (Sverdlovsk Province)—Iron ores)
 (Chromium)

CLADKOVSKIY, A. K., SHAROVA, A. K., VIORUSHIN, A. Y.

Turgay Straits - Petrology Rocks-igneous

Age of the igneous rocks in the central part of the Turgay Straits. Dokl. AN SSSR 83, No. 1, 1952. Ural'skiy Gosudarstvennyy Universitet im. A.M. Gor'kogo. Rcd. 8 Dec. 1951

SO: Monthly List of Russian Accessions, Library of Congress, August

195**3**%, **U**ncl.

APPROVED'FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961220012-7"

Manufacture of mesh-reinforced concrete arches (s:elis) with a two-vay curvature in Novosibirsk. Bet. i zhel.-bet. no.10:465-467 0 '61. (MIRA 14:12)

(Novosibirsk-Roofs, Shell)

5.4100

36276 \$/190/62/004/004/011/019 B117/B138

AUTHORS:

Asimova, R. M., Kozlov, P. V., Kargin, V. A., Vtorygin, S. M.

TITLE:

Plasticization of polymers with high-molecular compounds

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 4, no. 4, 1962, 554-559

TEXT: The effect of high-molecular plasticizers (butadiene nitrile rubber CKH-40(SKN-40) on the temperatures of polymer transitions and their mechanical properties were studied. Cellulose acetate butyrate with brittle point of 130°C was used as the polymer. Polymer and plasticizer were mixed in chloroform, the plasticizer concentration having been changed over a wide range. Thermomechanical tests were conducted on samples ranging from pure polymer to pure plasticizer. In the case of compatibility of the two components, the brittle point was found to be strictly proportional to the part by volume of the plasticizer in the system, i. e. interpacket plasticization of the polymer takes place here. The development of such homogeneous systems was observed only for very small amounts of plasticizer (1-10%), and very large ones (90-98%). Microheterogeneous mixtures formed in the remaining concentration range. With a plasticizer concentration of 10-30%,

Card 1/3

5/190/62/004/004/011/019 B117/B138

50

Plasticization of polymers...

the brittle point at first remained constant, which is characteristic of interpacket plasticization. At a concentration above 30%, the system began to become heterogeneous. With a plasticizer content of 40-80%, the brittle points of the two components appeared separately on the thermomechanical curves. The temperature transitions of plasticized cellulose acetate butyrate, hardened butadiene nitrile rubber, and their mixtures evidently correspond to these brittle points. Films of cellulose acetate butyrate with different plasticizer concentration were used for dynamometer tests. An increase of the plasticizer content up to 50% did not increase the relative elongation of the samples, but did reduce their tensile strength sharply. The low mechanical strength of plasticized samples is probably due to a microheterogeneity of the system. With a high rubber content (70% by weight) the samples behave like rubber. Calculation of the modulus of elasticity and study of its dependence on the plasticizer concentration produced the following result: When introducing small amounts of rubber, the modulus of elasticity of the polymer is reduced, and remains constant and sufficiently high up to a 60% plasticizer concentration. With a rubber content of 70% the modulus of elasticity of the polymer becomes: equ equal to that of the high-polymer plasticizer. By using high-polymer Card 2/3

S/190/62/004/004/011/019 B117/B138

Plasticization of polymers...

plasticizers materials with sufficiently high modulus of elasticity may be obtained. The mechanical properties required can, however, only be obtained i if homogeneous systems form from polymer and plasticizer, which requires compatibility of both components. Noncompliance with this condition leads to the development of a heterogeneous system and embrittlement of the material. There are 5 figures.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

SUBMITTED: March 15, 1961

Card 3/3

	kevich, A	. M.; Vol	okhonov	ich, I.	e. Noso	Kleymenov, v. E. F.; 2	orina, L.	_в. С
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TOP	IC TAGS:	polytetr	afluoro	ethylene	polymer	ization, po	lymerizatio	n
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ASIMOVA, R.M.; KOZLOV, P.V.; KARGIN, V.A.; VTORYGIN, S.M.

Plasticization of polymers by high molecular compounds.

Vysokom.soed. 4 no.4:554-559 Ap 162. (MIRA 15:5)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

(Polymers) (Plasticization) (Macromolecular compounds)

BARKOVSKIY, V.F.; VTORYGINA, I.N.

Use of photoelectrocolorimeters with optical compensation in the differential method of spectrophotometry. Zhur.anal.khim. 17 no.1:39-42 Ja-F '62. (MIRA 15:2)

1. A.M.Gorky Ural State University, Sverdlovsk. (Spectrophotometry)

BARKOVSKIY, V.F.; VTORYGINA, I.N.

Determination of nickel in steels by differential photometry.
Zav.lab. 28 no.3:275-276 '62. (MIRA 15:4)

1. Ural'skiy gosudarstvennyy universitet imeni A.M.Gor'kogo.
(Nickel--Analysis) (Steel--Analysis)
(Photometry)

BARKOVSKIY, V.F.; VTORYGINA, I.N.

Determination of large amounts of manganese in steels by the differental photometry method. Zhur.anal.khim. 17 no.7:865-867 0 '62. (MIRA 15:12)

1. A.M.Gorky Ural State University, Sverdlovsk.
(Manganese—Analysis) (Steel—Analysis)

USSR/Diseases of Farm Animals - General Problems.

R-1

Abs Jour

: Ref Zhur - Biol., No 4, 1958, 16900

Author

: Vtorygina, O.A., Vitayeva, R.N.

Inst

: Bashkir Agricultural Institute.

Title

: On the Use of Ultrahigh Frequency in Certain Inflammatory

Processes.

Orig Pub

: Tr. Poshkirsk. s.-kh. in-to 1956, 7, 216-220

Abstract

: The authors report on the effectiveness of UHF therapy and on its use in combination with pharmaceutical preparations in the treatment of catarrhal and purulent laryngopharyngitis and inflarmations of sub-maxillary lymphatic nodes in horses and dermatitis in dogs. -- T.A.

Sorokina.

Card 1/1

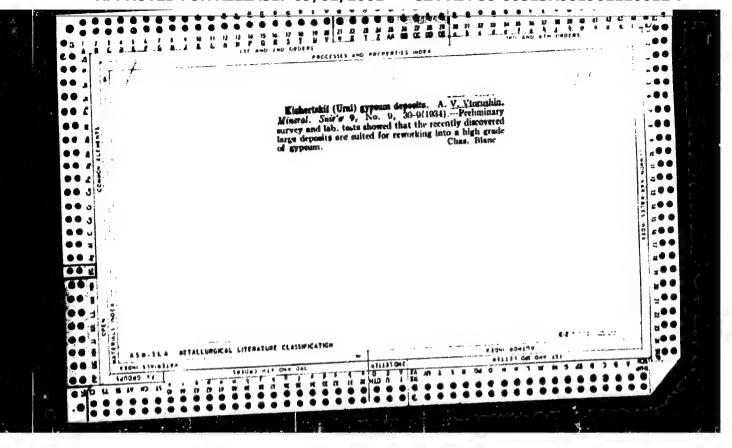
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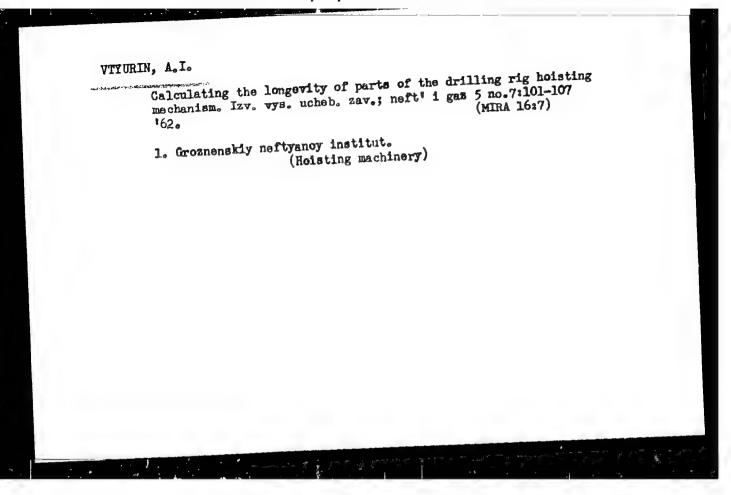
TIMOFEYEV, V.H., kand.tekhn.nauk; VTORYKH, G.T., insh.; SEROV, S.I., insh. SAVEL'YEV, V.A., insh.

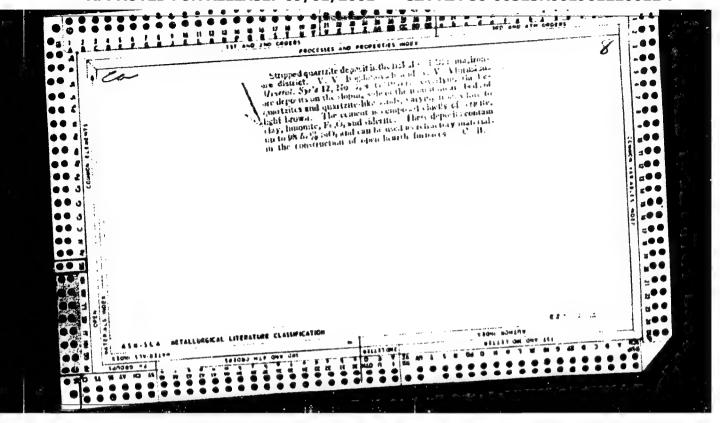
Semiautomatic production line for the manufacture of panel doors.

Der.prom. 9 no.12:17-19 D '60.

(Assembly-line methods) (Doors)







VTYURIN, A.I.

Calculating silent closing of piston pump valves. Izv. vys. ucheb. zav.; neft' i gaz 5 no.3:109-113 '62. (MIRA 16:8)

1. Groznenskiy neftyanoy institut.

VTYURIN, A.J.

Calculating the longevity of the parts of a hoisting machanism in a device for underground well repairing. Izv. vya. ucnab. zav.; neft' i gaz 6 no.8:97-98 '6). (MIRA 17:6)

1. Groznenskiy neftyency institut.

VTYURIN, A. I, CHEGODAYEV, A. M. I

24943 VTYURIN, A. I., CHEGODAYEV, A. M. I - O Pripritete Akademika A. P. Germana V Dokazatel'stpe Zakona "O Sovmectimosti Effektibhykh Kharakterictik Tsentrobezhnykh Hagnetateley. Gornyy Zhurnal, 1949, o. 8. S. 16-17.

So: Letopis', No33, 1949

TYURIN, M.I.

AID P - 1342

Subject : USSR/Engineering

Card 1/1 Pub. 78 - 5/30

Author : Kas'yanov, V. M. and Vtyurin, A. I.

Title Starting-stress calculation of sleeve couplings

used for well casings.

Periodical: Neft. khoz., v.32, #12, 15-16, D 1954

Abstract The authors comment on V. I. Tarasevich's article

published in this magazine, April 1953, concerning the use of F. I. Yakovlev's formula for the determination of the "starting stress" in the thread of sleeve couplings. Two drawings.

Institution: None

Submitted : No date

VTYURIN, A. I.

"Fundamentals of the Theory of Drill Lowering with the Use of a Band Brake."

Moscow Order of Labor Red Banner Petroleum Inst imeni Academician I. M. Gubkin, Moscow, 1955 (Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis', No. 32, 6 Aug 55

VTYURIN, B. A., SHUMSKIY, Petr Aleksandrovich,

"Underground ice"

report to be submitted for the Intl. Conference on Permafrost, Purdue Univ., Lafayette, Indiana, 11-15 Nov 63

KUPRINA, N.P.; VTYURIN, B.I.

Stratigraphy and cryogenic features of Quaternary sediments in the Yana Valley. Izv. AN SSSR. Ser. geol. 26 no.5:76-87 My '61. (MIRA 14:5)

1. Geologicheskiy institut AN SSSR i Institut merzlotovedeniya AN SSSR, Moskva. (Yana Valley (Yakutia)—Geology, Stratigraphic)

VIYURIN, B.I.

Origin of underground ice beds in the region of the village of Anadyr'. Probl.Sev. no.3:60-65 '59. (MIRA 13:4)

1. Institut merzlotovedeniya im. V.A.Obrucheva AN SSSR. (Anadyr' region--Frozen ground)

VTYURIN, B.I., kand.geograf.nauk

Buried pingo. Priroda 50 no. 3:107 Mr '61. (MIRA 14:2)

1. Institut merzlotovedeniya AN SSSR, Moskva.
(Tumara Valley--Frozen ground)

26-58-4-13/45

AUTHOR:

Vtyurin, B.I., Candidate of Geographical Sciences

TITLE:

A Study of the Ice-Covered Shores and Icebergs in Antarctica (Izucheniye ledyanykh beregov i aysbergov v Antarktika)

tike)

PERIODICAL:

Priroda, 1958, Nr 4, pp 59-63 (USSR)

ABSTRACT:

The author spent the winter of 1956/57 with glaciologists L.D. Dolgushin, A.P. Kapitsa and Yu.M. Model' in Antarctica studying the ice-covered shores of the Davis Sea and the adjacent area. The scientists covered an area from 74° to 111° east latitude and noted the following ice formations of independent character. The Antarctic glacial cover is the most magnificent glacial formation on earth, covering about 13 million sq km. Shelf glaciers are comparatively frequent. They are wide, moderately-high formations consisting of recongealed firm. The ice caps are in their forms similar to those of the Arctic. They are low, independent glacial formations topping elevated portions of dry land or underwater banks. Drifted glaciers (completely independent glacial formations) are widely spread along the edge of the Antarctic ice coat and consist of

Card 1/2

26-58-4-13/45

A Study of the Ice-Covered Shores and Icebergs in Antarctica

recongealed firm and layers of infiltrated ice. Many Antarctic glacier formations move towards the coast and discharge broken-off masses into the sea where these icebergs float in the vicinity of the shore. They are often stopped by underwater ridges and then form entire iceberg belts or "ice fjords".

There are 3 photos.

ASSOCIATION: Institut merzlotovedeniya imeni V.A. Obrucheva Akademii nauk

SSSR (Moskva) (Institute for the Study of Permafrost

imeni V.A. Obruchev of the USSR Academy of Sciences (Moscow)

AVAILABLE: Library of Congress

Card 2/2 1. Ice-Antarctic regions 2. Antarctic regions-Geophysical factors

VEL'MINA, N.A., kand.tekhn.nauk, otv. red.; VTYURIN, B.I., kand. geogr. nauk, otv. red.; KUDASHEVA, I.G., red.izd-va; UL'YANOVA, O.G., tekhn.red.

[Geocryological conditions in Western Siberia, Yakutia and the Chukchi Peninsula] Geokriologicheskie usloviia Zapadnoi Sibiri, IAkutii i Chukotki. Moskva, Izd-vo "Nauka," 1964.
138 p. (MIRA 17:3)

1. Akademiya nauk SSSR. Institut merzlotovedeniya.

Ü

VTYURIN, B.I.; KOREYSHA, M.M., otv. red.; KUDASHEVA, I.G., red. izd-va; TIKHOMIROVA, S.G., tekhn. red.

[Cryogenic structure of Quaternary sediments as revealed by a study in the Anadyr Lowland] Kriogennoe stroenie chetvertichnykh otlozhenii (na primere Anadyrskoi nizmennosti). Moskva, Izd-vo "Nauka," 1964. 150 p. (MIRA 17:3)

Cryopedologic-facies method and its significance, Trudy Inst.
meral.AN SSSR 18:103-107 '62. (MIRA 16:2)

(Cryopedology)

VTYURIN, B.I.; GASANOV, Sh.Sh.

History of the formation of permanently frozen ground in the lower Anadyr Lowland. Trudy Inst.merzl.AN SSSR 18:72-84 162.

(MIRA 16:2)

(Anadyr Lowland-Frozen ground)

VTYURIN, B.I.

Features of the cryological structure of loose deposits in the Tumara Basin. Trudy Inst. merzl. AN SSSR 17:34-38 '61. (MIRA 15:2)

(Tumara Valley-Frozen ground)

VTYURIN, B.I.

12-90-2-2/30

AUTHOR:

Dolgushin, L.D.; Vtyurin, B.I.; Model', Yu.M.; and Kapitsa,

TITLE:

The Preliminary Results of the Glaciological Investigations of the First Soviet Continental Expedition to the Antarctic (Predvaritel'nyye rezul'taty glyatsiologicheskikh issledovaniy pervoy sovetskoy kontinental'noy ekspeditsii v Antarktide)

PERIODICAL:

Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva, 1958, Vol 90, Nr 2, pp 118-133 (USSR)

ABSTRACT:

The USSR Academy of Sciences undertook an Antarctic expedition in 1956 - 57. The coast of the Antarctic continent between 74° and 110° (eastern longitude) was explored for a distance of 2,000 km. Investigations included aerial observations over a total distance of 50,000 km. The authors give detailed descriptions of glaciological investigations which were concentrated on the following subjects: 1) the ice cover and glacier morphology in the eastern Antarctic according to topography, increase and decrease of glaciers; 2) the snow-accumulation processes, the dynamics, nature and properties of the snow cover; 3) the temperature conditions of snow, ice and upper layer of the Earth crust; 4) the composition and structure of the ice covers and shelf glaciers; 5) the thickness of ice covers, shelf

Card 1/2

12-90-2-2/30

The Preliminary Results of the Glaciological Investigations of the First Soviet Continental Expedition to the Antarctic

glaciers and ice domes; experimental ice borings; 6) glacier movement speeds, iceberg formation processes and geological activity of glaciers. There are 6 photographs, 1 map and 5 schematic drawings.

AVAILABLE: Library of Congress

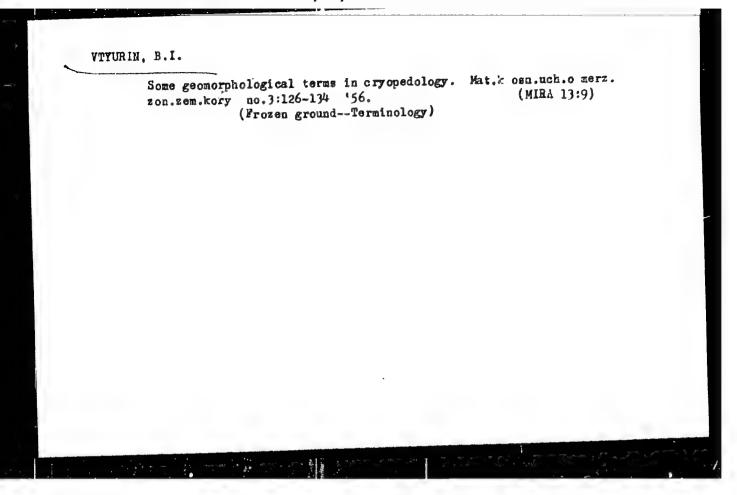
Card 2/2 1. Geophysics 2. Ice-Antarctic-USSR 3. Snow-Antarctic-USSR

TRUBIN B.I. kand. geograf. nauk

Structure of yearly marine land floe in Eastern Antarctica.
Inform. biul. Sov. antark. eksp. no.4:55-60 '59.

(MIRA 12:11)

1.Institut merelotovedeniya AN SSSR.
(Antarctic regions--Ice)



VTYURIN, B.I.; VTYURINA, Ye.A.

Winter observations on the formation and behavior of frost cracks in ice wedges. Trudy Inst.mersl.AN SSSR 16:98-105
(MIRA 13:4)

(Kazach'ye region--Frozen ground)

VTYURIN, B.M.

Distribution of labeled vitamin B, in different organs and its excretion from the organism in experimental fractures. Vit. res. i 1kh isp. no.5:256-260 161. (MIRA 15:1)

1. Kafedra meditsinskoy radiologii TSentral'nogo instituta usovershenstvovaniya vrachey, Moskva.
(CYANOCOBALAMINE) (FRACTURES)

VTYURIN, B.M.

Use of radioactive isotopes in the diagnosis of ralignant tumors of the thyroid gland. Med.rad. 10 no.3:83-87 Mr 65. 1. Institut meditsinskoy radiologii (dir. - deystvitel'nyy chlen AMN SSER prof. G.A.Zedgenidze) AMN SSSR, Moskva.

BAL'SEVICH, S.Ya.; VTYURIN, B.M.

P32_treatment of vascular complications of erythremia. Med.rad. 9 no.9:22-26 S 164. (MIRA 18:4)

1. Kafedra rentgenologii i radiologii (zav. - prof. I.A.Shekhter) Moskovskogo .,ditsinskogo stomatologicheskogo instituta i Instituta meditsinskoy radiologii AMN SSSR.

Electron microscopic study of the restorative processes in the liver after a burn injury. Eksper. Mair. 1 anest. 9 no.a.: 57-57 J1-Ag '64. (Mika 18:3)

1. Otdel patologickenkoy anatemii (20%. - prof. D6. Sarkicov) autituta khirurgii imeni Vishnevskopo (dir. - deystvitel'nyy chien AME SSSE prof. A.A. Vishnevskiy) AME SSSE, Hoskva.

SARKISOV, D.S.; VTYURIN, B.V.

Electron-microscopic findings on regeneration. Eksper. khir. i anest. 9 no.5:3-8 S-0 164. (MIRA 18:11)

1. Institut khirurgii imeni A.V.Vishnevskogo (direktor - deystvitel nyy chlen AMN SSSR prof. A.A.Vishnevskiy) AMN SSSR, Moskva.

OVCHINNIKOV, N.M., prof.; VIYURIN, B.V.

Certain structural characteristics of Treponema pallidum in electron microscopic observation. Vest.derm.i ven. 35 no.4: 48-52 Ap '61. (MIRA 14:5)

OVCHINNIKOVA, N.M., prof.; VTYURIN, B.V.

Gonococcus in the eletron microscope. Vest.derm.i ven. no.8: (MIRA 15:5)

1. Iz TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (dir. - kand.med.nauk N.M. Turanov) Ministerstva zdravookhraneniya RSFSR. (NEISSERIA GONORRHOEAE)

L 43104-65

ACCESSION NR: AR5008615

S/0299/65/000/004/M020/M020

SOURCE: Ref. zh. Biologiya. Svodnyy tcm, Abs. 4M109

AUTHOR: Sarkisov, D. S.; Vtyurin, B. V.

TITLE: Regeneration on the basis of electron microscopic data

CITED SOURCE: Eksperim. khirurgiya i anesteziol., no. 5, 1964, 3-8

TOPIC TAGS: tissue regeneration, cellular regeneration, electron microscopy, cell structure, pathology, intracellular hyperplasis

TRANSLATION: The authors review the significance of electron microscopy as a method for studying the pathological changes in t.ssues and revealing the complexity and specificity

1/2 Card

L 43104-65 ACCESSION NR: AR5008615

the existence of unity of form and function in various pathological states. L. Liozner

SUB CODE: LS

ENCL: 00

VIYURIH, N. I.

WIYURIN, N. I. -- "Investigation of the Temperature Dependence Hysteresis Losses in Rotating Magnetic Fields." Sub & Dec 52, Mosacw Chlest Pedagogical Inst. (Dissertation for the Degree of Candidate in Physicomathematical Sciences).

SO: Vechernaya Hoskva January-December 1952

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Thermoragnetism

Temperature function of hysteresis losses in rotating magnetic fields. Izv. A: SSSR Ser. fiz. 16, No. 6, 1952.

Investigated hysteresis losses in single crystals of Ni in rotating magnetic fields from 100 to 11,000 cersteds and temp dependence of hysteresis losses in range from 90° to 523° K by means of remote recorder in photofilm. Results are plotted in curves and agree with those by L. V. Kimenskiy (Trudy SFII, 28, 1949). Indebted to L. V. Kimenskiy and B. F. Tsomakion.

251T31

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VTYRIN, N.I., DROYKYN, A.I., IVLEY, V.F., TUKALOV, R.I., KYRENSKIY, L.V., VLASOV, A.I.

"The Temperature and Rotation Systemesis in Ferromagnetic materials" Krasnoyarsk

Conference on Physics of Magnetic Phenomena, May 1956, Sverdlovsk ,USSR

VIYURIN, N. I., VLASOV, A. I., KIRENSKIY, L. V., DROKYN, A. I., IVLEV, V. F., and TUKALOV, R. I. (Krasnoyarsk)

"The Temperature and Rotation Hysteresis in Ferromagnetic Materials," a paper submitted at the International Conference on Physics of Magnetic Phenomena, Sverdlovsk, 23-31 May 56.

YTYURIN,

AUTHORS:

48-9-12/26 Kirenskiy, L. V., Vlasov, A. Ya., Vtyurin, N. I.

Drokin, A. I., Ivlev, V. F., TukaLov, R. I.

TITLE:

Note on the Temperature- and Circular-Hysteresis in Ferromagnetic Substances (Temperaturnyy i vrashchatelinyy gisterezis v ferromag=

netikakh).

PERIODICAL:

Izvestiya AN SSSR Seriya Fizicheskaya, 1957, Vol. 21, Nr 9,

pp. 1262_1267 (USSR.).

ABSTRACT:

In this paper experimental investigations were conducted of: h) temperature hysteresis of magnetization according to the Bacycle (cooling-heating) (TMH), 2) the temperature hysteresis of magnetostriction (TMH), 3) the temperature hysteresis of the galvanomagnetic effect (THGE) according to the A-cycle (heating-cooling), 4) the phenomenon of the "circular" hysteresis of magnetostriction was established and investigated parallel to the study of the losses in rotating magnetic fields. The investigations were conducted on various samples of nickel. On the examination of the TWH! effect thick samples showed a much more marked effect than thin ones. If further cooling is applied, the thicker samples are subject to the effect of the demagnetization factor, which reduces the originally weak field. The importance of the energy of anisotropy grows, because of which fact

Card L/2

KIRENSKIY, L.V.; VLASOV, A.Ya.; VTYURIN, N.I.

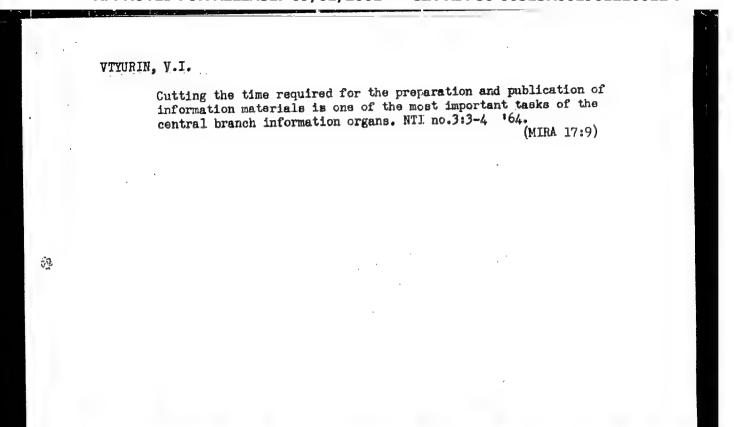
1. Institut fiziki Sibirskogo otdeleniya AN SSSR i Krasnoyarskiy pedagogicheskiy institut. (Magnetostriction)

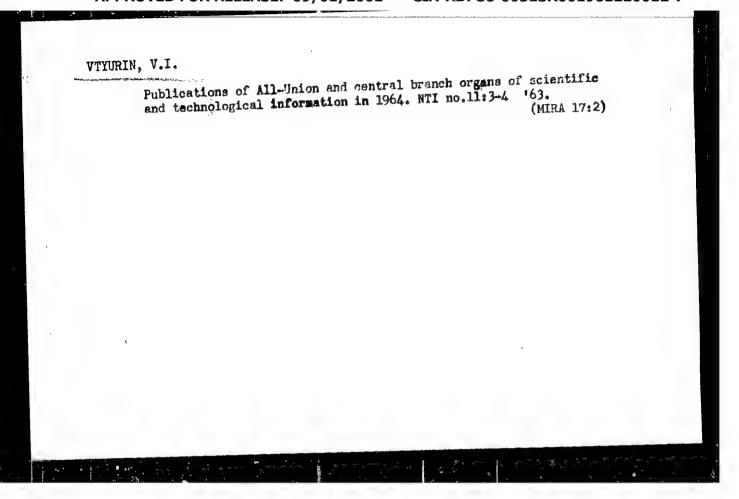
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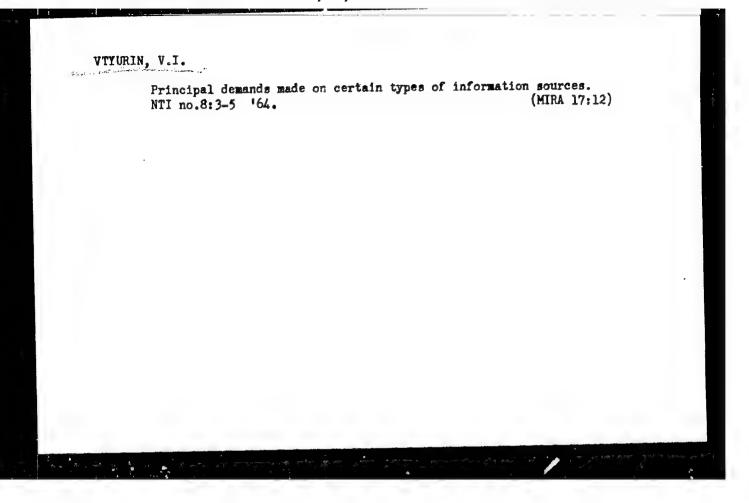
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Conference on the Present State and Potential Development of Information Work in Chemical and petrechemical "ndustries. NTI no.11:22-mation Work in Chemical and petrechemical "ndustries. (MIRA 18:1) 23 **164.



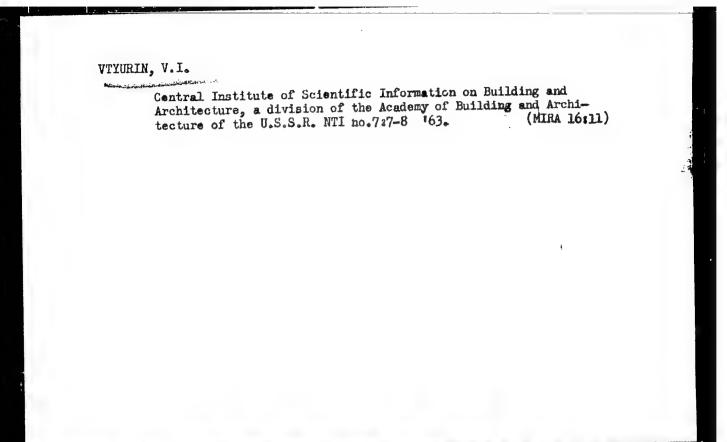




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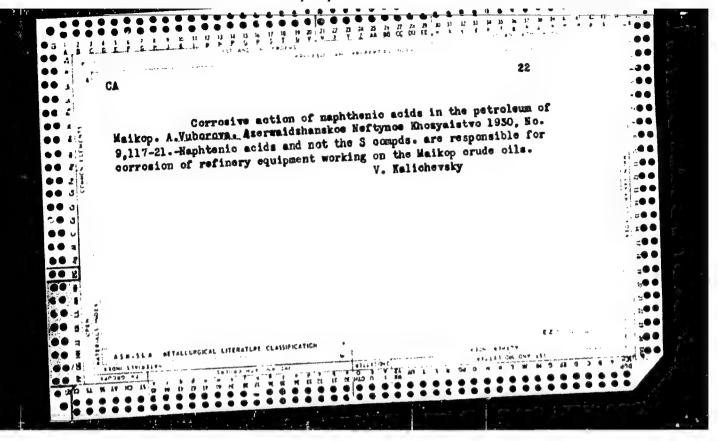
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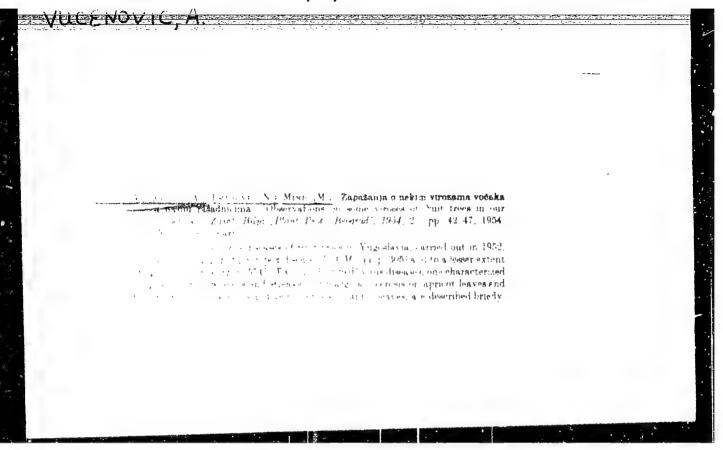
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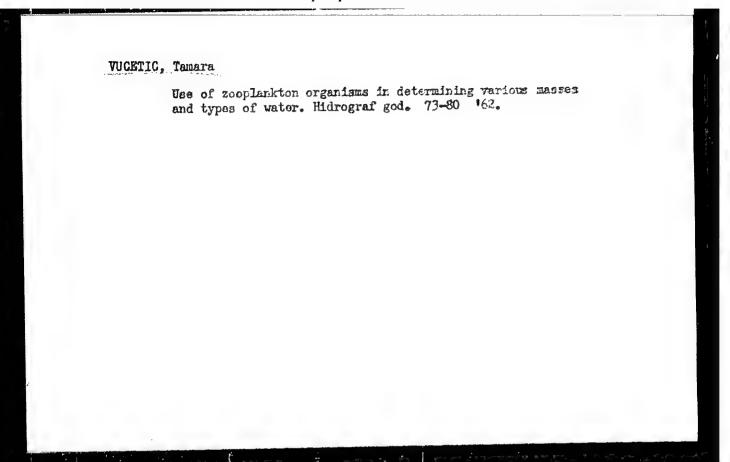
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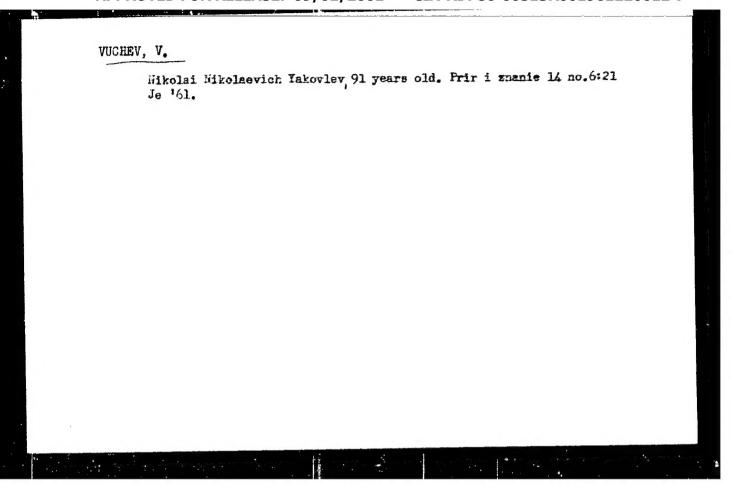
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